IBM / SRL Newsletter

Accumulative Index of Publications and Programs – IBM 1401

Section 1: Form Numbers of publications included in the 1401/1460 Systems Reference Library are listed below, with the edition suffix of all current editions shown. When more than one edition of a publication is current, the form number is followed by *. Any Technical Newsletter applying to a later edition also applies to all prior editions but is only listed once. If the changes released in Technical Newsletters are inserted in their proper place, each current edition will correspond to any of the others. # These items are for World Trade Use Only; not available in U.S.A.

Changes since the last edition of this Newsletter are in parenthesis.

SUBJ CODE	FORM NUMBER	TECHNICAL NEWSLETTERS			TITLE
00	GENERAL INFORMATION				
	A24-1495-5	(N20-1401.48)			1401 and 1460 Bibliography
	A24-3089-6	(N20-1001.44)			SRL Bibliography Supplement - Teleprocessing and Data Collection
	A24-1401-1*				1401 System Summary
	A24-1401-2*				
	A24-3165-1				1401 G System Summary
	A24-3476-0				1401 H System Summary
	A24-1496-1				1460 System Summary
	A24-1491-2				1401 Configurator
	A24-3494-0				1401 Model H Configurator
	A24-1497-4				1460 Configurator
	F20-8172-5	(N20-1002.25)			Bibliography of Data Processing Techniques
01	MACHINE SYSTEM				
	A24-3067-2				1401/60 System Operation Reference Manual
	A24-3070-1*				1401/60 Disk Storage Input/Output Instructions
	A24-3070-2*				
	A24-3068-0*	N24-0195			1401/60 Miscellaneous Input/Output Instructions
	A24-3068-1*	N24-0363			
	A24-3068-2*	N24-0393			
	A24-3068-3*				
	G24-1477-0				1401 Bulletin - 1401 Data Flow
	A24-6447-1*	N24-0284			1401/60 Instructions and Timing Summary
	A24-6447-2*				
	A24-3144-2				1401 Operator's Guide
	J22-6690-2				1401 1410 7040/44 Bulletin - Standard BCD Interchange Code
	A24-3069-0*	N24-0137			Tape Input/Output Instructions
	A24-3069-1*				
	A24-3069-2*				
03	INPUT/OUTPUT				
	A26-5754-0	N26-0069			1011 Paper Tape Reader
	A26-5776-0*	N26-0059	N26-0074		1012 Tape Punch
	A26-5776-1*				
	A24-1499-5				1219 Reader Sorter - 1419 Magnetic Character Reader
	A19-0004-0#				IBM 1219 Reader-Sorter, Model 32 IBM 1419 Magnetic Character Reader, Model 32
	A21-9012-6	N21-0094			1231/1232 Optical Mark Page Readers
	A24-3256-3				1285 Optical Reader Component Description
	A24-3072-2	N21-0098			1402 Card Read-Punch Component Description
	A24-3073-3*	N24-0374	N24-0380		1403 Printer Component Description
	A24-3073-4*	N24-0398	N24-0402		
		N24-0410	N24-0415		
	A24-3073-5*	N24-0421	(N24-0429)		

```
A24-3041-2                              1403 and 1443 Printers Form Design Considerations
A24-1446-1                              1404 Printer
A24-1421-1*  N24-0253                   1412 Magnetic Character Reader Model 1 - Reference Manual
A24-1421-2*  N24-0316   N24-0354
A24-1421-3*  (N24-0433)
A24-1473-0*  N24-0261                   1418 Optical Character Reader - 1428 Alphameric Optical
                                           Reader
A24-1473-1*  N24-0312-1
A24-1473-2*  N24-0383   N24-0413
A24-1452-1*  N24-0310                   1418/1428 Print Quality Considerations
A24-1452-2*
A24-3120-6                              1443 Printer Models 1 to 4 and N1 1445 Printer Models 1
                                           and N1
A24-3031-3*  N24-0305                   1447 Console
A24-3031-4*
C20-1607-0*                             High-Speed Reader Sorter Operations Manual
C20-1607-1*
```

05 MAGNETIC TAPE UNITS AND CONTROLS
```
    A22-6589-2*  N22-0120                   729, 8330, and 727 Magnetic Tape Units Principles of
                                               Operation
    A24-1470-0                              7340 Hypertape Drive Model 2
```

07 DIRECT ACCESS STORAGE UNITS AND CONTROLS
```
    A24-3157-0                              1301 Disk Storage Models 11, 12, 21 and 22
    A22-6784-0                              1301 and 1302 Disk Storage Sequential Data Organization
    A26-5991-0                              1311 Disk Storage Drive
    A24-3085-0                              1405 Disk Storage Unit
    A26-5756-6                              Disk Pack and Cartridge Handling Procedures
```

09 TELEPROCESSING EQUIPMENT

13 SPECIAL AND CUSTOM FEATURES
```
    A21-9065-1                              1322 and 534 Custom Features Descriptions
    A24-3342-0                              Batch Numbering Feature for 1241 and 1419 Magnetic Ink
                                               Character Recognition Readers
    A24-3071-2                              1401/60 Special Feature Instructions
    L24-1408-1                              1401 Special Systems Features Bulletin - Paper
                                               Tape Reader Input, RPQ E95528
    L24-1429-0                              1401 Special Systems Features Bulletin - Paper
                                               Tape Punch Output, RPQ E98337
    L24-1465-1                              1401 Special Systems Features Bulletin - 1403
                                               Printer Output, RPQ E96450
    L24-3102-2                              Modified Character Sets for 1403 Print Chain and
                                               Print Trains
    A24-3315-0                              Custom Features for 1401/40/60
    A24-3081-2*                             1418 and 1428 - Mark Read Station (Slanted Mark)
    A24-3081-3*
    A24-3036-1   N24-0298                   Endorser Special Feature - Magnetic Character Readers
```

15 PHYSICAL PLANNING SPECIFICATIONS
```
    C24-1404-7*  N24-0306   N24-0357        1401 Installation Manual - Physical Planning
    C24-1404-8*  N24-0377   N24-0407
    C24-1404-9*
    A24-1493-2   N24-0358   N24-0378        1460 Installation Manual - Physical Planning
                 N24-0382
    C22-6674-0   N22-0103                   7340 Hypertape Drive Model 2 for 1401/60 1410 Systems -
                                               Physical Planning Specifications (Tentative)
```

19 ORIGINAL EQUIPMENT MANUFACTURERS' INFORMATION
```
    A22-6643-3                              729 II, IV, V, VI, Magnetic Tape Units Original Equipment
                                               Manufacturers' Information
    A21-9020-0                              1231 Optical Mark Page Reader Original Equipment
                                               Manufacturers' Information
    A26-5713-1*  N26-0115                   1311 Disk Storage Drive Original Equipment Manufacturers'
                                               Information
    A26-5713-2*
    A24-1424-1                              1401 Processing Unit Original Equipment Manufacturers'
                                               Information
```

```
    A31-1400-2   N21-0020        1402 Card Read - Punch Original Equipment Manufacturers'
                                   Information
    A24-1431-3                   1403 Printer Original Equipment Manufacturers' Information
    A24-3356-0                   1404 Printer Model 2 Original Equipment Manufacturers'
                                   Information
    A24-3199-0   N24-0227        1460 Data Processing System Original Equipment
                                   Manufacturers' Information
    A22-6619-3                   7330 Magnetic Tape Unit Original Equipment Manufacturers'
                                   Information
```

20 PROGRAMMING SYSTEMS - GENERAL

```
   (C20-1601-9   N20-0013-18)    Catalog of Programs for 1240-1401 - 1420-1440 and 1460
                                   Data Processing Systems
    A22-6776-0                   7710 Data Communication Unit Principles of Operation
```

21 SYMBOLIC ASSEMBLY SYSTEMS

```
    C24-1480-0                   1401 Symbolic Programming Systems
```

22 AUTOCODER

```
    C24-3319-0                   1401/60 - Autocoder (on Tape) Language Specifications and
                                   Operating Procedures
    C24-3258-2                   1401/40/60 - Autocoder (on Disk) Language Specifications
    C24-3259-1*   N21-0039  N24-0270   1401/40/60 - Autocoder (on Disk) Program Specifications
                  N24-5004            and Operating Procedures
    C24-3259-2*   N21-5004
    C24-3259-3*
    C24-3262-0*   N24-0276       1401 Basic Autocoder 2K Operating Procedures
    C24-3262-1*
    C24-3170-1                   1401 and 1460 Basic Autocoder 2K Specifications
```

24 COBOL

```
    F28-8053-1*   N28-0019       COBOL - General Information Manual
    F28-8053-2*
    C24-1492-2                   1401 - COBOL (On Tape) Specifications
    C24-3235-2                   1401/40/60 - COBOL (On Disk) Specifications
    C24-3242-2                   1401/40/60 - COBOL (On Disk) Program Specifications -
                                   Operating Procedures
    C24-3146-3                   1401 COBOL (on Tape) Operating Procedures
```

25 FORTRAN

```
    F28-8074-2*                  FORTRAN - General Information Manual
    F28-8074-3*
    C24-3322-2    N21-5051       1401/40/60 - FORTRAN IV Language Specifications, Program
                                   Specifications, and Operating Procedures, 1401-FO-051
                                   (Disk Resident System) 1401-FO-052 (Tape Resident System)
    C24-3322-3*
    C24-1455-1*   N21-0046       1401 - FORTRAN Specifications and Operating Procedures
    C24-1455-2*
```

28 REPORT PROGRAM GENERATOR

```
    C24-3261-0*   N24-0251  N24-0265   1401/40/60 - Report Program Generator on Disk,
                                   Specifications
    C24-3261-1*
    C24-3166-0*   N21-0029  N24-0277   1401/60 - Basic 4K Report Program Generator Specifications
    C24-3166-1*
    C24-3267-0                   1401/60 - Basic 4K Report Program Generator Operating
                                   Procedures
    C24-3334-0                   1401/60 - Report Program Generator (on Disk) Operating
                                   Procedures 1401-RG-052 Version 2
    J24-0215-2                   1401 Data Processing System Bulletin - Report Program
                                   Generator for 1401 Card and Tape Systems
    C24-1464-0*   N24-0039       FARGO for 1401
    C24-1464-1*
    C24-1464-2*   N24-0231
    C24-1464-3*
    J24-1467-0                   1401 Data Processing Bulletin - Report Program Generator
                                   for IBM RAMAC 1401 Systems: Preliminary Specifications
```

30 INPUT/OUTPUT CONTROL SYSTEM

C24-1462-2*	N24-0286		1401/60 - Input/Output Control System (on Tape) Specifications and Operating Procedures
C24-1462-3*			
C24-1489-2*	N24-0200		Input/Output Control System (on Disk) for 1401/60 Specifications
C24-1489-3*			
C24-3237-1	N21-5017		Input/Output Control Program Specifications 1401/40/60 with 1285 Optical Reader
A19-0009-0#			1401-1419 Expanded Codeline Input/Output Control Program
C24-3047-2			Input/Output Control System Specifications 1460 with 1448 1401/60 Communications Input/Output Control System - 1448 Direct Data Channel
C24-3025-3			Direct Data Channel Input/Output Control System for 1401/40/60: Specifications Communications Input/Output Control System
C24-3298-0			1401/60 Input/Output Control System (on Disk) Operating Procedures
C24-3174-1			Communications Input/Output Control System Operating Procedures for 1401/60 1401/60 Communications Input/Output Control System - 1448/Direct Data Channel

32 UTILITY PROGRAMS

J24-1463-0			1401 - 1009 Utility Programs: Preliminary Specifications
C24-1484-2*	N21-0054	N21-5001	1401/40/60 Disk Utility Programs Specifications with 1301/1311
	N24-0287		
C24-1484-3*			
J24-1411-1*			Utility Programs for 1401 Tape Systems - Specifications
J24-1411-2*	N21-0030		
J24-1411-3*			
J24-1428-2			1401 Multiple Tape Utility Program Specifications and Operating Procedures
C24-3273-0	N24-0215		1401/60 Multiple Tape Utility Program Incorporating 120-Character Labels Specifications and Operating Procedures
C24-3105-2*	N24-0296		1401/60 Disk Utility Programs Operating Procedures with 1301 and 1311
C24-3105-3*			
C24-3132-0			1401 Hypertape Utility Programs Operating Procedures
J24-1485-0			1401 Data Processing Bulletin - 1012 Tape Punch Routine
J24-0209-2			1401 Card Systems: Preliminary Specifications
J24-1426-2			1401 Disk Storage: Utility Programs
C22-6777-0			Utility Programs for 1401 Equipped with the 7710 Data Communication Unit

33 SORT/MERGE

C24-3345-1*	N24-0294	N24-5019	1401/60 Timing Programs for System/360 Basic Programming Support 1401-LM-078 - Version 2 Sort/Merge Programs 8K Tape 1401-LM-080 - Version 1
C24-3345-2*	N21-5014	N21-5039	
C24-3345-3*			
C24-3377-0			1401/60 Timing Program for Basic Operating System/360 Sort/Merge Program 1401-LM-079
C24-3439-1*	N21-5015	N24-5065	IBM 1401/1460 Timing Program for IBM System/360 Disk and Tape Operating Systems Tape Sort/Merge Program 1401-LM-010 2401-2404 and 1401-LM-012 2415
C24-3439-2*			
C24-3439-3*			
C24-3445-1	N24-5125		IBM 1401/1460 Timing Program for IBM System/360 Disk Operating System Sort/Merge Program 1401-LM-011
J24-1422-1*	N24-0162		1401 Sort 1 Specifications
J24-1422-2*			
C24-3057-0	N24-0079		Sort 3 for 1401: Preliminary Specifications
C24-3077-0*			Sort 3 for 1401: Operating Procedures-
C24-3077-1*			
C24-3087-0	N24-0189		Sort 4 for 1401: Operating Procedures
C24-1420-4*	N21-0035		Sort Programs for 1401/60 - 1211 Specifications and Operating Procedures Generative Program: Sort 6 Object Programs: Sorts 61, 62, 63, and 64

C24-1420-5*	N21-5083		
C24-3176-1			Sort 5 and Sort 6 Timing Program Specifications and Operating Procedures IBM 1401 and 1460
C24-3053-3			1401/60 Merge 6 Specifications and Operating Procedures 1401-SM-063 - Prog. No. 1401-SM-063
C24-3317-0*	N21-0042	N21-5000	1401/60 Sort 7 Specifications and Operating
	N24-0279		Procedures 1401-SM-060
C24-3317-1*			
C24-1456-1*	N21-5002	N24-0291	1401/60 Sort 7 Timing Specifications and Operating Procedures
C24-1456-2*			
C24-3324-1			1401/60 Merge 7 Specifications and Operating Procedures 1401-SM-06
C24-3311-0			1401/60 Sort 13 and Sort 14 Timing Program Specifications and Operating Procedures 1401-LM-077
C24-3279-0	N24-0245		1460 Sort 14 Specifications
C24-3289-0			1460 Sort 14 Operating Procedures

34 DISK STORAGE FILE ORGANIZATION

C24-3185-1*	N24-0252	1401/40/60 1311 and 1301 Disk File Organization Routines Specifications
C24-3185-2*		
C24-3128-4*	N21-0056	1401/60 1311 and 1301 Disk File Organization Routines - Operating Procedures
C24-3128-5*		
C24-1451-0		1401-1405 Disk File Organization Routines Specifications

36 SUPERVISORS - MONITORS

37 AUTOMATIC TESTING PROGRAM

C24-3195-0*	N24-0204	Autotest for 1401/60 with 1311: Specifications and Operating Procedures
C24-3195-1*	N24-0272	
C24-3195-2*		
F20-0234-1*	N24-0120	Autotest for 1401 Specifications and Operating Procedures 1401-AT-042
F20-0234-2*		

48 MISCELLANEOUS PROGRAMS

C24-3384-1	1401/40/60 - 1026 and 1440/1448 Operating Systems Computer Assisted Instruction Author and Proctor Manual
C24-3385-1	1401/40/60 - 1026 and 1440/1448 Operating Systems Computer Assisted Instruction Student Manual
C24-3012-0	Standard Labeling Procedure for 1311 Disk Storage Drive
C24-1091-1	Programming for 1401/1428 Optical Readers
J28-6173-0	7000 and 1400 Output Editing System
J28-0238-0	1401 Peripheral Integrated Processing System for Use with 7000 Series Data Processing Systems

80 INSTALLATION SUPPLIES

X20-1702-0	Proportional Record Layout and Format Forms
(X20-1776-0	144/10/6 Print Chart)
(X20-1778-0	144/10/8 Print Chart)
X20-8011-0	Scheduling Control Form - Programming Progress Chart
X20-8020-0	Flowcharting Template
X20-8021-2	Autochart Flowcharting Worksheet
X20-8024-1	Decision Logic Coding Form
X20-8040-0	1230-31-32 Spacing Chart - Test Scoring 5 Words per Inch
X20-8041-1	1230-31-32 Spacing Chart - Test Scoring 4 Words per Inch
X20-8042-0	1230-31-32 Spacing Chart - Test Scoring 3 Words per Inch
X20-8043-0	1230-31-32 Spacing Chart - Non Test Scoring 5 Words per Inch
X20-8044-0	1230-31-32 Spacing Chart - Non Test Scoring 4 Words per Inch
X20-8045-0	1230-31-32 Spacing Chart - Non Test Scoring 3 Words per Inch
X24-1152-3	1401 Symbolic Programming System Coding Sheet
X24-1336-1	1401/1410 Report Program Generator Input Specifications
X24-1337-2	1401 Report Program Generator Data Specifications
X24-1338-3	1401 Report Program Generator Calculation Specifications
X24-1339-1	1401/1410 Report Program Generator Format Specifications
X24-1350-6	1401/1410/1440 Autocoder Coding Sheet
X24-3039-1	1418/1428 Optical Readers Document Design and Photo Document Sensors Timing Chart

```
X24-3140-1              1460 Physical Planning Template
X24-3245-0              Control Card Formats for Sort 2, Merge 2, Sort 4, Sort 7,
                          and Merge 7 with 1401/1460-
X24-3448-0              1445 Printer Spacing Chart
X24-6437-2*             1401/1460/1440 Program Chart
X24-6437-3*
X24-6438-4*             1401/1460 1410/1440 Storage Layout
X24-6438-5*
X24-6482-5              1401 Physical Planning Template
X24-6556-0              FARGO Report Specifications Phases 4 and 1
X24-6557-0              FARGO Report Specifications Phase 1
X24-6558-1              FARGO Report Specifications Phase 2
X24-6559-1              FARGO Report Specifications Phase 3
X24-6562-0              1401 Timing Estimates Sheet
X24-6568-1              1401/1410/1440 Library Coding Form
X24-6587-0*             1401 Console Sheet
X24-6587-1*
X24-6588-1*             1401/60 1440 Operating Instruction Sheet
X24-6588-2*
X24-6591-0*             1401/40/60 Report Program Generator Data Specifications
X24-6591-1*
X28-1464-1              COBOL Program Sheet
X28-1585-0              1401 Autotest Autocoder Control Card and Patch Card
                          Coding Sheet
X28-1586-0              1401 Autotest Tape and RAMAC File Generation Data Sheet-
X28-1625-0              7750 Assembly Program Sheet
X28-7327-5*             FORTRAN Coding Form
X28-7327-6*
```

85 REFERENCE CARDS
```
    X21-9021-0          1230-31-32 Document Marking Instructions Reference Card
    X24-1709-0          1401 Report Program Generator Reference Card
    X28-0314-0*         1401/1440/1460 Address Translation Card
    X28-0314-1*
    X28-1520-0          COBOL Reference Card
```

90 EDUCATION LITERATURE
```
    F20-0208-1          1401 - From Control Panel to Stored Program - General
                          Information Manual
    R20-9000-0*         1401 Data Processing System Basic Programming Course
                          Description
    R20-9000-1*
    R20-9001-1          1401 Accelerated Basic Programming Course Description
    R20-9013-2          1401 Data Processing System - System Planning Course
                          Description
    R20-9032-1          1401 Data Processing System - Programming Systems -
                          Course Description
    R20-9034-2          1401/1311 Disk Storage Programming Course Description
                          Programming System - Programmed Instruction Course
                          Description
    R20-9055-2*         1401 Data Processing System Basic Programming Autocoder
                          Programmed Instruction Course Description
    R20-9055-3*
```

99 OTHER SUPPLEMENTARY INFORMATION
```
    (320-1621-21)               Marketing Publications KWIC Index
    H20-0507-0   N20-1077-1     Bibliography of Application Publications Finance Industries
    H20-0522-0   N20-1853       Bibliography of Application Publications Distribution
                                  Industries
    H20-0530-0   N20-1866       Bibliography of Application Publications Public Utility
                                  Industries
    H20-0531-0   N20-1867       Bibliography of Application Publications Printing and
                                  Publishing Industries
    H20-0536-0                  Bibliography of Application Publications Insurance
                                  Industry
```

```
--------OBSOLETE AND/OR SUPERSEDED PUBLICATIONS--------

00    A24-3164                      Not Replaced
03    A24-3059-0                    Not Replaced
09    A26-5989-1    N27-0147        Not 1401 SRL Item
13    L24-3186-0                    Not Replaced
13    L24-3294-0                    Not Replaced
15    F24-1052-1-2                  Not Replaced
(19   A24-3169                      Not Replaced)
(28   C24-3209                      Not Replaced)
28    C24-3263                      Not Replaced
30    C24-3241                      TP Item
30    C24-3341                      TP Item
32    C24-1439                      Not Replaced
(32   C24-3156                      Not Replaced)
32    C24-3191-1                    Not Replaced
(33   C24-3038                      Not Replaced)
33    C34-3060                      Not Replaced
36    C26-5859                      Not Replaced
36    C26-5986-0                    Not Replaced
48    C24-3253                      TP Item
48    C28-6259                      TP Item
48    C28-8148-1                    Not Replaced
(80   X24-1527                      Not Replaced)
80    X24-3100-0-1                  Not Replaced Existing Stock Good
(80   X24-3115                      Not Replaced)
80    X24-3336-0                    Not Replaced
(80   X24-6436                      Not Replaced)
80    X24-6518                      Not Replaced
(90   C24-1494                      Not Replaced)
(90   R20-9010                      Not Replaced)
90    R20-9011                      Not Replaced
(90   R20-9012                      Not Replaced)
(90   R20-9029                      Not Replaced)
(90   R20-9030                      Not Replaced)
(90   R20-9031                      Not Replaced)
(90   R20-9033                      Not Replaced)
(90   R20-9054                      Not Replaced)
99    320-0923                      Not Replaced
(99   F20-0228                      Not Replaced)
```

Section 2: The abstracts which follow will be included in the next edition of the Bibliography
Entries added to this SRL Newsletter are identified by a vertical line in the left margin.

A24-3072   IBM 1402 CARD READ-PUNCH COMPONENT DESCRIPTION

This publication covers the IBM 1402 Models 1,2,3,4,5, and 6. Included are descriptions of major
mechanical units, their functions and operating controls, and special features that can be
installed to expand the capabilities of the basic machine.
     Additional publications concerning 1402 operation with various IBM data processing systems
are listed in the SRL bibliography for the specific system. The biliography lists all technical
reference literature and related materials necessary for planning, programming, installing, and
operating the data processing system in any configuration.

A24-3073   IBM 1403 PRINTER COMPONENT DESCRIPTION   03

This reference publication describes the various models of the IBM 1403 Printer used with IBM 1401,
1410, 1440, 1460, 7010, 7040, 7044, and System/360 Models 20, 25, 30, 40, 50, 65, and 75 Data
Processing Systems.
     The functional and operating characteristics of the printer are presented.
     The special features available for the 1403 are included, and timing information is given for
printing and paper movement. 56 pages.

A24-3081   MARK READ STATION (SLANTED MARK) FOR IBM 1418 AND IBM 1428   13

This publication describes the Mark Read Station (Slanted Mark) special feature. This feature is
available for the IBM 1418 Optical Character Reader, and for the IBM 1428 Alphameric Optical Reader.
A description of these functional specifications is included:
     Document Specifications
     Mark Reading
     Document Format

Document Corner Cuts
Document Feeding
The Slanted Mark Reading Gage is also fully described.
This publication is for those familiar with programming and operating the IBM 1418 and 1428, as described in these System Reference Library publications:
Programming for the IBM 1418 and IBM 1428 Optical Readers, C24-1091
IBM 1418 Optical Character Reader and IBM 1428 Alphameric Optical Reader, A24-1473. 12 pages.

A24-3120   IBM 1443 PRINTER MODELS 1 TO 4 AND N1   03
            IBM 1445 PRINTER MODELS 1 AND N1

This reference publication describes the operation of the IBM 1443 and 1445 Printers with the IBM 1240, 1401, 1440, 1450, 1460, 1800, and certain models of the IBM System/360 Data Processing System.
It also discusses timing information for the printer and the tape-controlled carriage as well as their functional and operating characteristics. The speed of the printer using the various character sets is also described.
Included is command, status, and sense information pertaining to the printers used with System/360 Data Processing Systems.
For a list of other publications and abstracts, see the IBM Bibliography for the associated data processing system. 32 pages.

A26-5756   IBM DISK PACK AND CARTRIDGE HANDLING PROCEDURES   07

This manual is a guide for handling IBM Disk Packs and Cartridges. The information contained in this manual applies to IBM 1316 and 2316 Disk Packs and 2315 Disk Cartridges. 12 pages.

C20-1601   CATALOG OF PROGRAMS FOR IBM 1240-1401-1420-1440 AND 1460   20
            DATA PROCESSING SYSTEMS - JUNE 1968

This Catalog contains a complete listing of all programs for the IBM 1240, 1401, 1420, 1440, and 1460 Data Processing Systems available from the Program Information Department, 40 Saw Mill River Road, Hawthorne, New York 10532.
Instructions for ordering programs are contained in the section of the Introduction entitled, "How to Order Programs". 80 Pages.

C24-1484   DISK UTILITY PROGRAMS SPECIFICATIONS IBM 1401, 1440, 1460   32
            (WITH IBM 1301 AND 1311)

Program 1401-UT-053
Program 1440-UT-041

This publication contains the specifications of nine disk-storage utility programs for IBM 1401, 1440, and 1460 Systems equipped with either or both 1301 and 1311 disk storage. The programs are:
    Clear Disk Storage
    Disk to Tape
    Tape to Disk
    Disk to Card
    Card to Disk
    Copy Disk
    Print Disk
    Disk Record Load
    Disk Label
For a list of related publications and abstracts, see the publications IBM 1401 and 1460 Bibliography, Form A24-1495, and IBM 1440 Bibliography, Form A24-3005. 36 pages.

C24-1489   INPUT/OUTPUT CONTROL SYSTEM (ON DISK) SPECIFICATIONS   30
            IBM 1401 AND 1460

This publication presents the specifications for the IBM 1401/1460 IOCS (on Disk) Program, Version 2.
It describes the programming required to use IOCS to control the input/output of data from card reader, card punch, printer, disk, and tape files. The IOCS descriptive entries (DIOCS and DTF) and macro instructions are explained in detail. The types of processing and types of records handled by IOCS are defined.
The IBM 1401/1460 IOCS (on Disk) program is a supplement to the IBM 1401/1440/1460 Autocoder (on Disk) program. The reader should be familiar with the specifications for this program, described in the SRL publication, Autocoder (on Disk) Program Specifications and Operating Procedures, IBM 1401, 1440, and 1460, C24-3259. For a more complete understanding of the organization of records on disk, he should also review the disk file-organization routines.
The SRL publication IBM 1401/1460 Bibliography, Form A24-1495, lists publications available for other programming systems. 72 pages.

C24-3053   MERGE 6 SPECIFICATIONS AND OPERATING PROCEDURES   33
            IBM 1401 AND 1460

Program Number 1401-SM-063

This publication, C24-3053-3, describes the Merge 6 program, its capabilities, phases, and
merge object program. The control and parameter cards by which a user can tailor the program
to his specific needs are also explained.
    This publication is intended for use with Form C24-1489, Input/Output Control System (on Disk)
Specifications for IBM 1401/1460.
    The user should also become familiar with the following SRL bulletins:
    o Autocoder (on Disk) Language Specifications for IBM 1401, 1440, and 1460, Form C24-3258.
    o Autocoder (on Disk) Program Specifications and Operating Procedures for IBM 1401, 1440,
       and 1460, Form C24-3259.
    Other related publications and their abstracts are listed in the IBM 1401/1460 Bibliography
SRL, Form A24-1495. 42 pages.

C24-3174   COMMUNICATIONS IOCS OPERATING PROCEDURES IBM 1401 AND 1460   30
            (1401/1460 COMMUNICATIONS IOCS - 1448/DDC)

Program Number 1460-IO-011

This publication provides IOCS (Input/Output Control System) operating procedures for IBM 1401
system that can include the IBM 729, 1311, 1402, 1403, 7330, and direct data-channel feature,
and for IBM 1460 systems that can include these same I/O facilities plus the IBM 1448. It
supplements Autocoder (on Disk) Program Specifications and Operating Procedures for IBM 1401,
1440, and 1460 Form C24-3259.
    Specifications for the IOCS programming systems included in these operating procedures are
available in these publications:
    Input/OUtput Control System (on Disk) Specifications for IBM 1401 and 1460, Form C24-1489
    IOCS Specifications for IBM 1460 with IBM 1448 (1401/1460 Communications IOCS - 1448/DDC),
Form C24-3047
    Direct Data Channel IOCS Specifications for IBM 1401, 1440 and 1460 (1401/1460 Communications
IOCS - 1448/DDC), Form C24-3025.
    These operating procedures should be used only for 1401 systems that include the direct
data-channel feature and for 1460 systems that include either the IBM 1448 or the direct
data-channel feature. When only IBM 729, 1311, 1402, 1403, and 7330 input/output files are
to be handled, use Input/Output Control System (on Disk) Operating Procedures for IBM 1401 and
1460, Form C24-3088. 12 pages.

C24-3176   SORT 5 AND SORT 6 TIMING PROGRAM SPECIFICATIONS AND OPERATING   33
            PROCEDURES IBM 1401 AND 1460

Program Number 1401-LM-062

This reference publication presents the specifications and operating procedures for the Sort 5 and
Sort 6 Timing Program. An IBM 1401 or 1460 Data Processing System with the required machine
configuration can be used to produce Sort 5 timing estimates for disk files to be sorted on any
IBM 1440 Data Processing System, and Sort 6 timing estimates for disk files to be sorted on any
IBM 1401 or 1460.

    The first section of this publication discusses machine requirements, the program deck, timing
considerations, and program information requirements. The second section describes system
preparation, messages, and halts.
    The user should be familiar with Sort 5 for IBM 1440: Specifications (Form C24-3009) and
Sort 5 for IBM 1440: Operation Procedures (form C24-3163), or Sort 6 Specifications for IBM 1401
and 1460 (Form C24-1420) and Sort 6 for IBM 1401: Operating Procedures (Form C24-3135).
    For a list of associated publications and their abstracts see the IBM bibliography that applies
to the associated IBM data processing system. 30 pages.

C24-3385   IBM 1401/1440/1460-1026 AND 1440-1448 OPERATING SYSTEMS   48
            COMPUTER ASSISTED INSTRUCTION STUDENT MANUAL

1440-1448   Program 1440-OS-090
1440-1026   Program 1440-OS-091
1401/1460-1026   Program 1401-OS-092

This publication describes the IBM 1052 Printer-Keyboard as used with the Computer Assisted
Instruction Program (CAI). The publication:
    1. Contains the information necessary for the student to use the printer-keyboard to receive
course material from the computer.
    2. Describes the standard features, operation, and cautions the student must exercise while
using the printer-keyboard. 10 pages.

C24-3439   IBM 1401/1460 TIMING PROGRAM FOR IBM SYSTEM/360 DISK   33
            AND TAPE OPERATING SYSTEMS TAPE SORT/MERGE PROGRAM

Program Number 1401-LM-010 (2401-2404)
Program Number 1401-LM-012 (2415)

This publication contains the specifications and operating procedures for the IBM 1401 and 1460
timing program used to estimate the amount of time required to sort tape records with the IBM
System/360 Disk Operating System Tape Sort/Merge program or the IBM System/360 Tape Operating
System Tape Sort/Merge Program.
    The following information is included in this publication:
    1. Minimum machine requirements for estimating times with these programs.
    2. A description of the user-prepared information cards required to define the proposed sort
operation.
    3. The procedure to follow for executing the timing program.
    The user of this publication should be familiar with IBM System/360 Disk-and Tape Operating
Systems Tape Sort/Merge Program Specifications, Form C24-3438. For a list of associated 1401/1460
publications, see the IBM 1401/1460 Bibliography, Form A24-1495. For a list of associated System/360
publications, see the IBM System/360 Bibliography, Form A22-6822. 16 pages.

C24-3445   IBM 1401/1460 TIMING PROGRAM FOR IBM SYSTEM/360   33
            DISK/OPERATING SYSTEM SORT/MERGE PROGRAM

Program 1401-LM-011

This publication contains the specifications and operating procedures for the IBM 1401 and 1460
timing program used to estimate the amount of time required to sort records with the IBM System/360
Disk Operating System Sort/Merge program.
    The following information is included in this publication:
    1. Minimum machine requirements for estimating times with this program.
    2. A description of the user-prepared information cards required to define the proposed sort
operation.
    3. The procedure to follow for executing the timing program.
    The user of this publication should be familiar with IBM System/360 Disk Operating System,
Sort/Merge Program Specifications, C24-3444. For a list of associated 1401/1460 publications, see
IBM 1401/1460 Bibliography, A24-1495. For a list of associated System/360 publications, see
IBM System/360 Bibliography, A22-6822. 16 pages.

H20-0507   BIBLIOGRAPHY OF APPLICATION PUBLICATIONS FINANCE INDUSTRIES   99

The purpose of this bibliography and the associated classification system is to list and
categorize IBM application publications that are pertinent to finance industries. Section I lists
these publications by application or industry. Section II contains an abstract of each publica-
tion, in form number sequence.
    A periodic Bibliography of Application Publications (BAP) newsletter (N20-1077) is published
to keep the bibliography up to date. The newsletter is divided into two sections. Section I is
an updated listing of application publications by application or industry. This section also
includes any corrections to the bibliography and a list of superseded publications. Section II
contains an abstract of each publication not included in the last published bibliography.
26 pages.

H20-0522   BIBLIOGRAPHY OF APPLICATION PUBLICATIONS DISTRIBUTION INDUSTRIES   99

The purpose of this bibliography and the associated classification system is to list and
categorize IBM application publications that are pertinent to distribution industries. Section I
lists these publications by application or industry. Section II contains an abstract of each
publication, in form number sequence.
    A periodic Bibliography of Application Publications (BAP) newsletter (N20-1853) is published to
keep the bibliography up to date. The newsletter is divided into two sections. Section I is an
updated listing of application publications by application or industry. This section also includes
any corrections to the bibliography and a list of superseded publications. Section II contains an
abstract of each publication not included in the last published bibliography. 26 pages.

H20-0530   BIBLIOGRAPHY OF APPLICATION PUBLICATIONS PUBLIC UTILITY INDUSTRIES 99

The purpose of this bibliography and the associated classification system is to list and
categorize IBM application publications that are pertinent to public utility industries. Section I
lists these publications by application or industry. Section II contains an abstract of each
publication, in form number sequence.

A periodic Bibliography of Application Publications (BAP) newsletter N20-1866 is published to keep the bibliography up to date. The newsletter is divided into two sections. Section I is an updated listing of application publications by application or industry. This section also includes any corrections to the bibliography and a list of superseded publications. Section II contains an abstract of each publication not included in the last published bibliography. 14 pages.

H20-0531   BIBLIOGRAPHY OF APPLICATION PUBLICATIONS PRINTING   99
            AND PUBLISHING INDUSTRIES

The purpose of this bibliography and the associated classification system is to list and categorize IBM application publications that are pertinent to printing and publishing industries. Section I lists these publications by application or industry. Section II contains an abstract of each publication, in form number sequence.
    A periodic Bibliography of Application Publications (BAP) newsletter N20-1867 is published to keep the bibliography up to date. The newsletter is divided into two sections. Section I as an updated listing of application publications by application or industry. This section also includes any corrections to the bibliography and a list of superseded publications. Section II contains an abstract of each publication not included in the last published bibliography. 12 pages.

H20-0536   BIBLIOGRAPHY OF APPLICATION PUBLICATIONS INSURANCE INDUSTRY   99

The purpose of this bibliography and the associated classification systems is to list and categorize IBM application publications that are pertinent to the insurance industry. Section I lists these publications by application or industry. Section II contains an abstract of each publication, in form number sequence.
    A periodic Bibliography of Application Publications (BAP) newsletter (N20-1869) is published to keep the bibliography up to date. The newsletter is divided into two sections. Section I is an updated listing of application publications by application or industry. This section also includes any corrections to the bibliography and a list of superseded publications. Section II contains an abstract of each publication not included in the last published bibliography. 22 pages.

X20-1776   144/10/6 PRINT CHART (144 POSITION SPAN AT 10 CHARACTERS PER INCH, 80
            AND 6 LINES PER VERTICAL INCH

This 11" x 18" chart is printed in green ink and provides 144 printing positions (at 10 positions per inch horizontally) for a printer carriage space-setting of 6 lines per inch. The form essentially follows the layout recommended by the SHARE organization. This chart may be reproduced using most standard office copying machines, but when the form is to be used as reproduction copy for printing documents and the grid and other preprinted information is to be "dropped-out", the printer should be instructed to use a green filter.
    Only black pen ink or typewritten insertions are recommended.
    Padded form - 25 sheets per pad, printed one side.

X20-1778   144/10/8 PRINT CHART (144 POSITION SPAN AT 10 CHARACTERS PER INCH, 80
            AND 8 LINES PER VERTICAL INCH

This 11" x 18" chart is printed in green ink and provides 144 printing positions (at 10 positions per inch horizontally) for a printer carriage space-setting of 8 lines per inch. The format essentially follows the layout recommended by the SHARE organization. This chart may be reproduced using most standard office copying machines, but when the form is to be used as reproduction copy for printing documents and the grid and other preprinted information is to be dropped-out, the printer should be instructed to use a green filter.
    Only black pen ink or typewriter insertions are recommended.
    Padded form - 25 sheets per pad, printed one side.

Section 3: Program numbers of programming systems available for the IBM 1401/60 are listed below. The date of the most recent modification is given. Abstracts and ordering instructions are found in Catalog of Programs and Programming Systems, C20-1601.

PROGRAM NAME	NUMBER	VERSION	MOD LEVEL	DATE
TYPE I				
Card Systems Error Detection Aids	1401-AT-017	1	1	08/12/63
Auto Test	1401-AT-072	1	8	08/26/65
1401/1311 Autotest 8K	1401-AT-081	1	4	05/11/65
1401/1311 Autotest 16K	1401-AT-082	1	3	12/28/64
1401 Basic Autocoder 2K	1401-AU-005	1	9	07/11/66

1401/1440/1460 Autocoder on Disk	1401-AU-008	1	13	07/11/66
Autocoder Program	1401-AU-037	3	11	12/07/65
COBOL 4K	1401-CB-070	2	11	01/20/66
COBOL Conversion 1401 S/360	1401-CB-701	1	6	08/23/67
FORTRAN	1401-FO-050	3	7	12/13/65
1401 1440 1460 FORTRAN 4, Card	1401-FO-051	2	2	10/10/66
1401 1440 1460 FORTRAN 4, Tape	1401-FO-052	2	2	10/10/66
FORTRAN II Language Conversion Program	1401-FO-702	2	2	02/13/67
Communications IOCS for 1401/1460	1460-IO-011	3	2	06/21/65
1401/60 IOCS	1401-IO-012	1	4	12/13/65
Tape Reading and Writing Subroutines	1401-IO-040	2	2	07/15/63
IOCS	1401-IO-065	2	14	12/29/65
1401 1311 IOCS	1401-IO-068	2	10	10/18/66
1401/1012 Tape Punch Routines	1401-IO-074	1	1	08/20/63
1401/1440/1460-1285 IO CP	1401-IO-077	1	2	08/11/66
7040/7044 Input/Output	1401-IO-152	1	0	09/10/63
Card Systems Subroutine	1401-LM-007	1	2	02/13/63
1401/60 Timing Program BOS/360 16K Disk S/M	1401-LM-011	2	0	08/02/66
1401/60 Timing Prog - TOS/360 S/M	1401-LM-010	1	1	01/18/67
1401/1460 Timing Program IV System/360 Disk and Tape	1401-LM-012	1	0	11/02/66
1401 Sort 7 Timing Program	1401-LM-060	1	0	12/21/64
Programming for Timing Sort 5 & 6	1401-LM-062	1	0	7/28/64
Sort 13-14 Timing Program	1401-LM-077	1	0	12/21/64
1401/60 Timing Program 360 Basic Program Support Sort Merge 8K	1401-LM-078	2	1	01/12/67
1401/60 1440 Timing Program BOS/360 S/M	1401-LM-079	2	0	12/02/65
1401/60 Timing Prog S/360 BPS Sort Merge	1401-LM-080	1	1	11/10/66
1401-1026 OP Sys CAI	1401-OS-092	1	0	07/11/65
1401 Pips	1401-PR-925	1	0	07/09/62
Basic 4K R P G	1401-RG-022	1	7	01/05/66
1401-1311 RPG	1401-RG-032	2	8	01/21/66
2K R P G	1401-RG-033	1	1	02/26/65
FARGO	1401-RG-045	1	3	08/28/63
Report Program Generator	1401-RG-048	1	2	09/06/63
1400 RPG to 1401 0360 RPG Translator	1401-RG-700	1	1	06/01/66
SORT 1	1401-SM-029	2	7	01/24/64
1401 Sort 3	1401-SM-046	1	2	05/12/65
1401 Sort 4	1401-SM-047	1	7	12/23/65
1401 Sort 7	1401-SM-060	2	8	07/11/66
1401 Merge 7	1401-SM-061	3	1	07/11/66
1401-1311 Sort 6	1401-SM-062	2	7	07/11/66
1401 Merge 6	1401-SM-063	1	2	08/25/65
Sort 62	1401-SM-064	1	2	04/19/65
Sort 63	1401-SM-065	1	1	12/04/64
Sort 64	1401-SM-066	1	3	12/27/65
Sort 61	1401-SM-067	1	1	12/04/64
1460 Sort 14	1460-SM-068	1	2	09/23/65
1460 Sort 14	1460-SM-069	1	1	07/06/65
Symbolic Programming System - SPS 1	1401-SP-021	1	3	08/15/63
Symbolic Programming System - SPS 2	1401-SP-030	3	2	08/15/63
7750 Assembly Program Using 1401	1401-SP-133	2	0	11/05/63
7740 Assembly Program	1401-SP-156	4	1	02/03/66
1460-1070 Process Commun Monitor	1460-SV-090	1	0	07/11/66
1460-1070 Process Commun Monitor	1460-SV-091	1	0	07/11/66
Card Systems Utility Programs	1401-UT-001	1	0	10/14/60
Multiple Tape Utility	1401-UT-019	1	0	02/23/65
1401 1460 Tape Utility Programs with 120 Characters Label Capacity	1401-UT-025	1	2	07/08/65
Tape to Printer Program	1401-UT-026	3	0	12/13/61
Card to Tape Utility Program	1401-UT-027	4	1	06/12/64
Tape to Card Utility Program	1401-UT-028	1	2	07/16/62
Multiple Utility Program for Tape Systs	1401-UT-039	3	4	09/14/64
File Utilities	1401-UT-051	1	0	07/01/61
1401/1311 File Organization	1401-UT-052	2	6	07/11/66

1401 1311 Disk Utilities	1401-UT-053	2	4	11/19/65
File Organization Routines	1401-UT-057	1	6	04/23/65
1401-1009 Utility Programs	1401-UT-066	1	0	11/14/61
1401 Hypertape Utility Programs	1401-UT-067	1	0	11/16/64
1401-7710 Tape Utility System	1401-UT-069	1	0	08/28/65
Data Communications Utility Program	1401-UT-076	1	1	04/13/65
7040/7044 Auxiliary Programs	1401-UT-153	5	2	03/16/65
7040/44-1401 Periph. UT. PGM./See PR-154	1401-UT-157	2	1	06/07/65
7090/1401 Auxiliary Programs	1401-UT-158	1	3	12/15/6
Input Program/7090-SI-1621	1401-UT-958	3	0	06/04/65

TYPE II

Dare	1401-CA-04X	2	0	05/13/66
Autoprops II	1401-CN-03X	1	4	10/14/65
1400-1311 Linear Programming	1401-CO-13X	1	0	05/27/65
1401 S D I	1401-CR-01X	2	0	02/01/65
Key Word in Context KWIC	1401-CR-02X	2	1	06/09/65
1401 MGMT Decision Making Lab.	1401-CS-02X	1	1	06/02/65
Modular Inventory Management Simulator	1401-CS-03X	1	0	10/02/62
1401 Autoplotter	1401-CX-03X	1	1	03/11/65
Impact	1401-DW-02X	2	4	03/11/65
1401/1311 Impact	1401-DW-03X	2	3	05/04/67
1401 Engineering Scheduling System	1401-EX-01X	1	0	02/18/65
1401 Demand Deposit	1401-FB-01X	1	1	02/26/63
Bank Management Simulation	1401-FB-02X	1	3	10/04/63
Bank Sort Program	1401-FB-06X	1	1	12/04/63
Bond Trade Analysis of a Bank	1401-FB-09X	1	5	08/16/66
1401 Allocation of Resources	1401-FB-14X	1	2	10/21/65
1401 Portfolio Selection Program	1401-FI-04X	1	1	05/19/65
Financial Analysis Program	1401-FI-05X	1	4	08/11/65
Auto Rating For Fire & Casualty /Auto/	1401-IF-01X	1	0	02/06/63
General Distribution / Card	1401-IF-02X	1	0	07/20/64
General Distribution / Tape	1401-IF-03X	1	2	08/17/65
Homeowners Rating Program	1401-IF-05X	1	0	08/07/64
1962CFO/ConsolidatedFunctionsOrdinary/	1401-IL-01X	2	1	06/01/66
62 C. F. O.	1401-IL-02X	1	18	12/13/68
Valuation Programs	1401-11-03X	1	13	05/02/68
Decision Logic Translator	1401-SE-05X	1	1	07/28/65
Documentation Aids System	1401-SE-12X	2	0	03/04/66
S/360 COBOL Edition 1401	1401-SE-13X	1	2	08/31/66
Administrative Terminal System	1460-CX-08X	2	0	03/18/65

Note - This SRL Newsletter was prepared on an IBM Magnetic Tape Selectric Typewriter.

DIV.	BR. OFF. NO. OR LOCATION	DEPT. NO.	REQUISITION NO.

DATE ORDERED	CUSTOMER NUMBER	

IBM Systems Reference Library

Publication Order

Ship to:

TO: *IBM Representative* _____

Please provide copies of the publications listed below.

_____ _____

Signature   Date

ZIP

☐ Check here if for shipment to Branch Office

IBM 1401/1460 SRL Newsletter (N20-1401.48)   **August 4, 1969**

(This order form for use within two months of date of issue.)

Form Number	Quantity	U/M
NEW PUBLICATIONS		
X20-1776-0	( )	001
X20-1778-0	( ))	001
MAJOR REVISIONS		
320-1621-21	( )	001
C20-1601-9	( )	001
NEWSLETTERS		
N20-1001.44	( )	001
N20-1002.25	( )	001
N24-0429	( )	001
N24-0433	( )	001
_____	( ) _____	
_____	( ) _____	
_____	( ) _____	
_____	( ) _____	
_____	( ) _____	
_____	( ) _____	
_____	( ) _____	
_____	( ) _____	
_____	( ) _____	

SRL PUBLICATION ORDER FORM

This order form is included to simplify the ordering of additional copies of the new
and revised publications and Newsletters listed in this SRL Newsletter. Please follow
the instructions below carefully to insure prompt and accurate processing.

INSTRUCTIONS TO USER:

1. Review the SRL Newsletter and determine your requirements for additional copies
   of newly announced publications, major revisions, and Technical Newsletters.

2. Show your complete mailing address, including ZIP code.

3. Give to your IBM representative or mail to the IBM Branch Office serving your
   account.

NOTE: Newsletters issued concurrently with new and revised manuals are not listed
      as they are sent automatically when the manual to which they refer is ordered.

INSTRUCTIONS TO BRANCH OFFICE:

1. Complete the block in upper left corner.

2. For orders to be shipped to the Branch Office, omit address and check box below
   address label.

3. All orders must be signed by authorized person. Authorization implies approval
   to send Y-prefixed items (Restricted Distribution) to the address indicated.

4. Forward to the IBM Distribution Center for processing.